

**ioimage**

by **dvitel** Powered by DRS Technologies



## ioimage™ Thermal 5640 Pan-Tilt (PT) Camera

Automated detection in fog, haze, smoke, low light, no light and other challenging environments.

Now you can...have the competitive edge with a 24/7 thermal solution that outperforms conventional surveillance technologies. Powered by DRS Technologies, the ioimage Thermal line offers fixed and PT configurations in a low-power, lightweight design with multiple lens options, for a variety of applications. Bundled with ioimage analytics encoders, it delivers an ideal automated detection solution.

The ioimage Thermal 5640 fixed camera delivers a 640 x 480 pixel array with exceptional image clarity.

FEATURE	BENEFIT
640 x 480 pixel array	Exceptional quality and clarity at night, in fog and low lighting
< 12.95 watts power PoE	Low-power consumption reduces utility costs and eliminates the need for expensive PoE+ port
Image Contrast Enhancement (ICE™)	Image is adjusted to gain the optimal range and contrast – better detail in focus area
ONVIF™ Profile S Conformant	Integration with many third party software manufacturers
Four lens options - 17.6°, 24.8°, 37.5°, 44°	Adapts to application – match detection distance to needs; the further the target detection required, the smaller the field of view and the wider the distance
30 and 9 frames per second (fps) models	Easier export approval for 9 fps models
Dual PAL/NTSC models with analog-out	Backward-compatible for global deployment
Storage on the edge (SoE)	Enables remote storage without a server

### Highlights

- VGA
- 9 or 30 FPS models
- Bundled with ioimage analytics
- H.264, MJPEG and analog outputs
- Tamper-resistant IP66 enclosure
- Wide operating temperature range
- Built-in heater
- Browser-based web setup
- Enhanced image processing

**dvitel**® Now you can.

VIDEO INNOVATION TO SECURE YOUR BUSINESS

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Image Contrast Enhancement (ICE) is a trademark of DRS Technologies.  
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[www.dvtel.com](http://www.dvtel.com)



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### CT-5640 PT Specifications

Camera (Pixel Array)	
Array Size	640 x 480
Detector Type	Uncooled VOx Microbolometer
Detector Pitch	17 um
Spectral Response	8-14 um (LWIR)
Sensitivity	<50 mK at f/1.0
Electrical	
Power	12-24VDC, 24VAC, 802.3af, PoE
Power Consumption	<12.95W PoE
Video	
Frame Rate	Configurable for up to 30 frames per second (fps) or Fixed at 9 fps
Format	Analog: NTSC/PAL IP: H.264/MJPEG
Gain/Level Control	Automatic
Image Polarity	White Hot/Black Hot , Invert/Revert
Image Processing	Image Contrast Enhancement (ICE™)
Network	
Protocols	Internet Protocol (IP): ONVIF Conformant (v 2.0 / Profile S); RTP, RTSP, TCP, UDP, DHCP, FTP, HTTP, HTTPS, SMTP, NTP
Interfaces	Internet Protocol (IP): Ethernet (10/100BaseT), RJ45
Physical	
Dimensions (Diameter x Height)	20 cm x 27 cm [7.9 x 10.6 in]
Weight	< 3 kilograms [< 6.6 lbs]
Enclosure	IP66 (Ball-down Configuration), Tamper resistant
Motion Mechanics Pan Range (Azimuth)	Continuous 360°
Tilt Range (Elevation)	± 120°
Pan-and-Tilt Max Speed	30° per second
Pan-and-Tilt Preset Accuracy	± 2.5°
Environmental	
Operating Temperature	-20°C to +60°C (-4°F to 140°)
Storage Temperature	-50°-+75°C (-58°-+167°F)
Software	
Web setup	Configured from Internet Explorer IE 8, IE 9, IE 10
Hardware	
Embedded Memory	2GB for video storage and image capture
Regulatory	
USA & Canada	UL 60065 7th edition 2007-12-11, CAN/CSA-C22.2 No. 60065-03, 1st edition, 2006-04+A1:2006; FCC Class A Part 15 Subpart B; CE IEC 60065 (Edition 7) and IEC 60065 (Edition 7) Am1; RoHS
International	CE Marked; European RoHS directive 2002/95/EC, WEEE

### Lens options



**17.6° Image**  
17.6° H x 13.2° V Field of View  
f/1.2 35mm Effective Focal Length



**24.8° Image**  
24.8° H x 18.6° V Field of View  
f/1.2 25mm Effective Focal Length



**37.5° Image**  
37.5° H x 28° V Field of View  
f/1.2 16.7mm Effective Focal Length



**44° Image**  
44° H x 33° V Field of View  
f/1.2 14.25mm Effective Focal Length

The commodities described herein may require U.S. Government authorization prior to export or re-export.

- 9 Hz models are export controlled by the U. S. Department of Commerce under ECCN 6A993.
- 30 Hz models are export controlled by the U. S. Department of Commerce under ECCN 6A003.b.4.b.